

Adjustable Phase Shifter, DC to 2GHz, With an Adjustable Phase of 90 Deg. Per GHz with N-type connector

## Phase Shifters and Trimmers Technical Data Sheet

**PE82P5014**

### Features

- Phase Tuning Range: 0 to 180 degrees
- Rotary Dial Design for Continuous Adjustment
- Frequency Range from DC to 2GHz
- N-Type Female Connectorized Design
- Max VSWR 1.3:1
- Max Power Rating: 100 Watts (CW)
- Insertion Loss: 0.8 dB Max

### Applications

- Test & Measurements
- Radar Development
- Military Communications Systems
- Phase Array Antenna System
- Satellite Communications

### Description

Pasternack's PE82P5014 is a phase shifter that has phase adjustment range of 90 degrees per GHz with precision rotary dial design for controllable phase adjustment across a frequency range from 0 to 2GHz. With N-Type female connectors, this RF phase shifter design is tried and true technology that offers exceptional RF performance characteristics that include 0.8 dB maximum insertion loss and a maximum VSWR of 1.3:1. Phase shifters are part of Pasternack's comprehensive RF passive product offerings which are available in stock and ready for same-day shipment.

### Electrical Specifications (Values at +25° C, Sea Level)

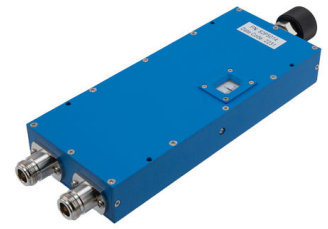
Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2	GHz
Impedance		50		Ohms
Phase Shift	0		180	Degrees
Phase Adjustment	0		90	Deg/GHz
Input VSWR			1.3:1	
Insertion Loss			0.8	dB
Input Power, CW			100	Watts
Input Power, Peak 5µs pulse, 2% duty cycle			5	kWatts

### Mechanical Specifications

#### Size

Length	9.29 in [235.97 mm]
Width/Diameter	2.99 in [75.95 mm]
Height	1.2 in [30.48 mm]
Weight	1.4 lbs [635.03 g]
Body Material and Plating	Aluminum

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Adjustable Phase Shifter, DC to 2GHz, With an Adjustable Phase of 90 Deg. Per GHz with N-type connector PE82P5014](#)



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### Configuration

Input Connector	N Female
Output Connector	N Female

### Environmental Specifications

#### Temperature

Operating Range	-10 to 50 deg C
Storage Range	-40 to 70 deg C

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

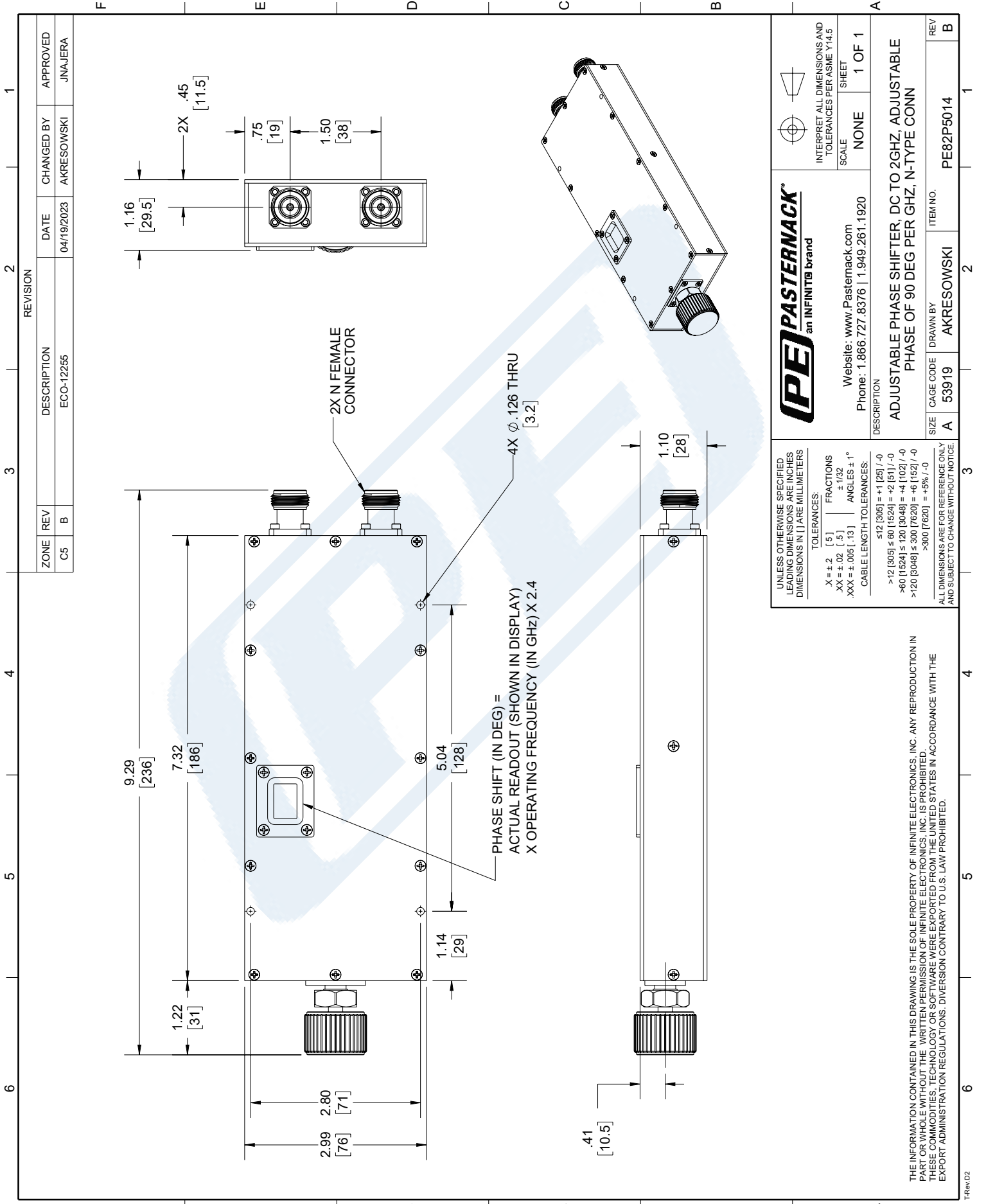
Adjustable Phase Shifter, DC to 2GHz, With an Adjustable Phase of 90 Deg. Per GHz with N-type connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Adjustable Phase Shifter, DC to 2GHz, With an Adjustable Phase of 90 Deg. Per GHz with N-type connector PE82P5014](#)

URL: <https://www.pasternack.com/adjustable-phase-shifter-2-ghz-90-deg-per-ghz-n-pe82p5014-p.aspx>

# PE82P5014 CAD Drawing

Adjustable Phase Shifter, DC to 2GHz, With an Adjustable Phase of 90 Deg. Per GHz with N-type connector



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
C5	B	ECO-12255	04/19/2023	AKRESOWSKI	JNAJERA

REVISION	1	2	3	4	5	6
DESCRIPTION	ECO-12255					
DATE	04/19/2023					
CHANGED BY	AKRESOWSKI					
APPROVED	JNAJERA					

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS
TOLERANCES:
X = ±.2 [5]    FRACTIONS ± 1/32
.XX = ±.02 [.5]    ANGLES ± 1°
.XXX = ±.005 [.13]    CABLE LENGTH TOLERANCES:
≤12 [305] = ±.1 [25] / -0
>12 [305] ≤ 60 [1524] = ±.2 [51] / -0
>60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
>120 [3048] ≤ 300 [7620] = ±.8 [152] / -0
>300 [7620] = ±.5% / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
SCALE: NONE
SHEET: 1 OF 1
DESCRIPTION: ADJUSTABLE PHASE SHIFTER, DC TO 2GHZ, ADJUSTABLE PHASE OF 90 DEG PER GHZ, N-TYPE CONN
Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a>
Phone: 1.866.727.8376   1.949.261.1920
ITEM NO. PE82P5014
DRAWN BY AKRESOWSKI
CAGE CODE 53919
REV B

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